

APPENDIX C

CLEAN WATER ACT SECTION 303(d) (TMDLs)

Section 303(d) of the Clean Water Act requires biennial listing of waterbodies not meeting water quality standards and prioritization of those waterbodies for waste reduction activities (TMDLs). The North Coast Regional Water Quality Control Board adopted its latest Section 303(d) list on April 23, 1998.

A citizen's lawsuit against US Environmental Protection Agency produced a consent decree scheduling a number of north coast rivers for development of TMDLs, primarily for sediment and temperature. The Regional Water Board has accepted responsibility for developing and implementing waste reduction strategies in compliance with the Clean Water Act in a number of WMAs. Descriptions of the planned activities appear in this section.

In some areas, organizing and activism by citizens involved in economic enterprises that depend on access to and use of natural resources, such as agriculture and forestry, gives rise to local watershed groups. Other watersheds have seen conservation and restoration efforts that are central to a citizen's watershed group. Some watersheds are held in major part by large commercial timber enterprises or the U.S. Forest Service. In these cases, direct interagency conferring with the timber interests is often the forum of first resort. Still other cases involve a combination of any or all of these elements into a dynamic community oriented resource management planning group. Considering the variety of potentials for watershed efforts, including but not limited to the examples noted above, Regional Water Board staff must be attentive to the local, adaptive nature of all these approaches. Consequently, the formation of a "watershed group" may or may not be the primary concern of the Regional Water Board staff.

The list and target analysis completion and adoption dates are presented in Table 2.7-1. The table contains references to Technical Support Documents (TSDs). TSDs contain the technical elements needed for USEPA establishment of TMDLs where the State cannot fully adopt and approve a TMDL prior to any consent decree deadline. For consent decree TMDLs scheduled to be completed by the Regional Board, a TSD will be submitted to USEPA according to dates negotiated between these agencies, prior to Regional Water Board adoption of a TMDL and Implementation Plan.

The detail for TMDL activities from July 2002 through June 2006 appears as Table 2.7-2. This includes development of a Regional Implementation Plan for Sediment Reduction.

**TABLE 1. NORTH COAST REGION
TMDL PROJECTS AND SCHEDULE**

Watershed Management Area	Waterbody(s)	Pollutant(s) / Stressor(s)	Projected Start Date	Current Projected Completion Dates	
				TSD or TMDL Report	Basin Plan Amendment
Russian River/ Bodega	Russian River (RB)*	Sediment	July 2009	July 2011 RB TMDL	2013
	Americano Creek (RB)	Nutrients	July 2004	July 2006 RB TMDL	2008
	Estero Americano (RB)	Nutrients Sediment	July 2004	July 2006 RB TMDL	2008
North Coast Rivers	Garcia River (RB)	Sediment		December 1998	December 1998
	Garcia River (RB)	Temperature	2007	2009 RB TMDL	2011
	Noyo River (RB)	Sediment	1998	1999 RB TSD	June 2003
	Navarro River (RB)	Sediment	July 1999	July 2000 RB TSD	December 2004
	Navarro River (RB)	Temperature	July 1999	July 2000 RB TSD	December 2004
	Gualala River (RB)	Sediment	July 2000	August 2001 RB TSD	December 2004
	Mattole River (RB)	Sediment	July 2001	July 2002 RB TSD	December 2004
	Mattole River (RB)	Temperature	July 2001	July 2002 RB TSD	December 2004
	Big River (EPA)	Sediment	January 2001	December 2001	June 2003
	Ten Mile River (EPA)	Sediment	January 2000	December 2000	June 2003
	Albion River (EPA)	Sediment	January 2001	December 2001	June 2003
Humboldt	Redwood Creek (RB)	Sediment	1997	1998	June 2005
	Mad River (EPA)	Sediment	July 2005	July 2007	December 2008
	Mad River (EPA)	Turbidity	July 2005	July 2007	December 2008
	Elk River (RB)	Sediment	July 2007	July 2009 RB TMDL	2011

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Watershed Management Area	Waterbody(s)	Pollutant(s) / Stressor(s)	Projected Start Date	Current Projected Completion Dates	
				TSD or TMDL Report	Basin Plan Amendment
	Freshwater Creek (RB)	Sediment	July 2008	July 2010 RB TMDL	2012
Trinity	Trinity River (EPA)	Sediment	July 2000	December 2001	June 2005
	South Fork Trinity River (EPA)	Sediment	1997	December 1998	June 2005
Klamath	Klamath Basin, Upper Lost River (RB)	Nutrients	January 2001	July 2003 RB TSD	June 2008
	Klamath Basin, Lost River/Tule Lake (RB)	Nutrients	January 2002	July 2004 RB TSD	June 2008
	Klamath Basin, Salmon River (RB)	Nutrients	January 2002	July 2003 RB TSD	June 2008
	Klamath River, Mainstem (RB)	Nutrients	January 2001	July 2006 RB TSD	June 2008
	Klamath Basin, Upper Lost River (RB)	Temperature	January 2001	July 2003 RB TSD	June 2008
	Klamath Basin, Lost River/Tule Lake (RB)	Temperature	January 2002	July 2004 RB TSD	June 2008
	Klamath Basin, Salmon River (RB)	Temperature	January 2002	July 2003 RB TSD	June 2008
	Klamath River, Mainstem (RB)	Temperature	January 2001	July 2006 RB TSD	June 2008
	Klamath River (RB)	Temperature	July 2004	June 2006 RB TSD	June 2008
	Klamath River (RB)	Dissolved Oxygen	July 2004	June 2006 RB TSD	June 2008
	Shasta River (RB)	Dissolved Oxygen	June 2002	July 2005 RB TSD	June 2007
	Shasta River (RB)	Temperature	June 2002	July 2005 RB TSD	June 2007
	Scott River (RB)	Sediment	June 2002	July 2005 RB TSD	June 2007
	Scott River (RB)	Temperature	June 2002	July 2005 RB TSD	June 2007
Eel River	Eel River, South Fork (EPA)	Sediment	1997	1999	December 2006

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Watershed Management Area	Waterbody(s)	Pollutant(s) / Stressor(s)	Projected Start Date	Current Projected Completion Dates	
				TSD or TMDL Report	Basin Plan Amendment
	Eel River, South Fork (EPA)	Temperature	1997	1999	December 2006
	Eel River, North Fork (EPA)	Sediment	2001	December 2002	December 2006
	Eel River, North Fork (EPA)	Temperature	2001	December 2002	December 2006
	Eel River, Middle Fork (EPA)	Sediment	2001	December 2003	December 2006
	Eel River, Middle Fork (EPA)	Temperature	2001	December 2003	December 2006
	Eel River, Upper Main, Tomki (EPA)	Sediment	2002	December 2004	December 2006
	Eel River, Upper Main, Tomki (EPA)	Temperature	2002	December 2004	December 2007
	Eel River, Middle Main (EPA)	Sediment	2003	December 2005	June 2008
	Eel River, Middle Main (EPA)	Temperature	2003	December 2005	June 2008
	Eel River Delta (EPA)	Sediment	2004	December 2006	June 2008
	Eel River Delta (EPA)	Temperature	2004	December 2006	June 2008

Notes:

In watershed column, notations of EPA (US Environmental Protection Agency) and RB (North Coast Regional Water Quality Control Board) identify the lead agency for developing the technical analysis for the TMDL.

In the TSD or TMDL Date column, TSD refers to Technical Support Document and is the document prepared by the North Coast RWQCB staff to satisfy the deliverable requirement under the Consent Decree for Consent Decree watersheds. TMDL refers to a technical TMDL that is prepared by EPA for EPA-lead Consent Decree watersheds, and by North Coast RWQCB staff for non-consent decree watersheds.

Basin Plan Amendment refers to the estimated date of Regional Board adoption of the TMDL and Implementation Plan. The dates assume that the Regional Board will adopt the Implementation Plan at the Board meeting at which the Plan is first presented to them.

Table 2.7-2. Detailed schedule of TMDL activities (2001-06).

Redwood Creek		
Watershed name	Redwood Creek	
Hydrologic unit	107.00	
Stressor	Sediment	
Stakeholder Participation	Medium	
Program Integration	NPS, Timber Harvest, NCWAP	
Interagency Coordination	National Park Service, CDF, DFG, DMG, EPA	
Activity dates	Start	End
TMDL Development	2-97	12-98
Implementation Planning	5-98	6-05
Basin Plan Amendment	9-98	6-05
Implementation Oversight and Tracking	6-00	Ongoing

S. Fork Trinity River		
Watershed name	Trinity River	
Hydrologic unit	106.20	
Stressor	Sediment (EPA)	
Stakeholder Participation	Medium	
Program Integration	NPS, Timber Harvest	
Interagency Coordination	CDF, USFS, EPA	
Activity dates	Start	End
TMDL Development	9-97	12-98
Implementation Planning	12-03	6-05

Basin Plan Amendment	12-03	6-05
Implementation Oversight and Tracking	9-02	Ongoing

Van Duzen River		
Watershed name	Eel River	
Hydrologic unit	111.20	
Stressor	Sediment (EPA)	
Stakeholder Participation	Medium	
Program Integration	NPS, Timber Harvest	
Interagency Coordination	CDF, USFS, EPA	
Activity dates	Start	End
TMDL Development	9-98	12-99
Implementation Planning	7-99	12-06
Basin Plan Amendment	6-05	12-06
Implementation Oversight and Tracking	12-06	Ongoing
Noyo River		
Watershed name	Noyo River	
Hydrologic unit	113.20	
Stressor	Sediment	
Stakeholder Participation	Medium	
Program Integration	NPS, Timber Harvest	
Interagency Coordination	CDF, EPA	
Activity dates	Start	End

TMDL Development	1-99	12-99
Implementation Planning	7-99	6-03
Basin Plan Amendment	12-01	6-03
Implementation Oversight and Tracking	9-02	Ongoing

Garcia River		
Watershed name	Garcia River	
Hydrologic unit	113.70	
Stressor	Temperature	
Stakeholder Participation	Medium	
Program Integration	NPS, Timber Harvest	
Interagency Coordination	CDF, EPA	
Activity dates	Start	End
TMDL Development	Unknown	
Implementation Planning	Unknown	Unknown
Basin Plan Amendment	Unknown	Unknown
Implementation Oversight and Tracking	Unknown	Ongoing

Ten Mile River		
Watershed name	Ten Mile River	
Hydrologic unit	113.13	
Stressor	Sediment (EPA)	
Stakeholder Participation	Medium	
Program Integration	NPS, Timber Harvest	
Interagency Coordination	CDF, EPA	
Activity dates	Start	End
TMDL Development	1-99	12-99

Implementation Planning	7-99	6-03
Basin Plan Amendment	12-01	6-03
Implementation Oversight and Tracking	9-02	Ongoing

Navarro River		
Watershed name	Navarro River	
Hydrologic unit	113.50	
Stressor	Sediment	
Stakeholder Participation	Medium	
Program Integration	NPS, Timber Harvest	
Interagency Coordination	CDF, EPA	
Activity dates	Start	End
TMDL Development	9-99	7-00
Implementation Planning	2-97	12-04
Basin Plan Amendment	6-03	12-04
Implementation Oversight and Tracking	9-02	Ongoing

Navarro River		
Watershed name	Navarro River	
Hydrologic unit	113.50	
Stressor	Temperature	
Stakeholder Participation	Medium	
Program Integration	NPS, Timber Harvest	
Interagency Coordination	CDF, EPA	
Activity dates	Start	End
TMDL Development	9-99	7-00
Implementation Planning	2-97	12-04
Basin Plan Amendment	6-03	12-04
Implementation Oversight and Tracking	9-02	Ongoing

Gualala River		
Watershed name	Gualala River	
Hydrologic unit	113.80	
Stressor	Sediment	
Stakeholder Participation	Medium	
Program Integration	NPS, Timber Harvest, NCWAP	
Interagency Coordination	CDF, DFG, DMG, EPA	
Activity dates	Start	End
TMDL Development	7-00	8-01
Implementation Planning	7-99	12-04
Basin Plan Amendment	6-03	12-04
Implementation Oversight and Tracking	9-02	Ongoing

Big River		
Watershed name	Big River	
Hydrologic unit	113.30	
Stressor	Sediment	
Stakeholder Participation	Medium	
Program Integration	NPS, Timber Harvest, NCWAP	
Interagency Coordination	CDF, DFG, DMG, EPA	
Activity dates	Start	End
TMDL Development	7-00	12-01
Implementation Planning	7-99	6-03
Basin Plan Amendment	12-01	6-03
Implementation Oversight and Tracking	9-02	Ongoing

Albion River		
Watershed name	Albion River	
Hydrologic unit	113.40	

Stressor	Sediment (EPA)	
Stakeholder Participation	Medium	
Program Integration	NPS, Timber Harvest, NCWAP	
Interagency Coordination	CDF, DFG, DMG, EPA	
Activity dates	Start	End
TMDL Development	7-00	12-01
Implementation Planning	7-99	6-03
Basin Plan Amendment	12-01	6-03
Implementation Oversight and Tracking	9-02	Ongoing

Trinity River		
Watershed name	Trinity River	
Hydrologic unit	106.10, 106.30	
Stressor	Sediment (EPA)	
Stakeholder Participation	Medium	
Program Integration	NPS, Timber Harvest	
Interagency Coordination	CDF, EPA	
Activity dates	Start	End
TMDL Development	7-99	12-01
Implementation Planning	7-99	6-05
Basin Plan Amendment	12-03	6-05
Implementation Oversight and Tracking	9-02	Ongoing

Mattole River		
Watershed name	Mattole River	
Hydrologic unit	112.30	
Stressor	Sediment	
Stakeholder Participation	Medium	
Program Integration	NPS, Timber Harvest, NCWAP, SWAMP	
Interagency Coordination	CDF, DFG, DMG, EPA	
Activity dates	Start	End
TMDL Development	7-00	7-02
Implementation Planning	6-02	12-04
Basin Plan Amendment	6-03	12-04
Implementation Oversight and Tracking	9-02	Ongoing

Mattole River		
Watershed name	Mattole River	
Hydrologic unit	112.30	
Stressor	Temperature	
Stakeholder Participation	Medium	
Program Integration	NPS, Timber Harvest, NCWAP	
Interagency Coordination	CDF, DFG, DMG, EPA	
Activity dates	Start	End
TMDL Development	7-00	7-02
Implementation Planning	6-01	12-04
Basin Plan Amendment	6-03	12-04
Implementation Oversight and Tracking	9-03	Ongoing

Eel River *	
Watershed name	Eel River
Hydrologic unit	111.00

Stressor	Sediment	
Stakeholder Participation	Medium	
Program Integration	NPS, Timber Harvest, NCWAP, SWAMP	
Interagency Coordination	CDF, DFG, DMG, USFS, EPA	
Activity dates	Start	End
TMDL Development	9-98	12-02 to 12-06
Implementation Planning	7-99	12-06 to 12-08
Basin Plan Amendment	6-05 to 6-07	12-06 to 12-08
Implementation Oversight and Tracking	9-02	Ongoing

Eel River *		
Watershed name	Eel River	
Hydrologic unit	111.00	
Stressor	Temperature	
Stakeholder Participation	Medium	
Program Integration	NPS, Timber Harvest, NCWAP, SWAMP	
Interagency Coordination	CDF, DFG, DMG, USFS, EPA	
Activity dates	Start	End
TMDL Development	9-98	12-02 to 12-06
Implementation Planning	7-99	12-06 to 12-08
Basin Plan Amendment	6-05 to 6-07	12-06 to 12-08
Implementation Oversight and Tracking	9-02	Ongoing

Scott River	
Watershed name	Scott River
Hydrologic unit	105.00
Stressor	Temperature and Sediment

Stakeholder Participation	Medium	
Program Integration	NPS, NCWAP, SWAMP	
Interagency Coordination	CDF, DFG, DMG, USFS, EPA	
Activity dates	Start	End
TMDL Development	1-02	7-04
Implementation Planning	1-06	6-07
Basin Plan Amendment	1-06	6-07
Implementation Oversight and Tracking	9-03	Ongoing

Shasta River		
Watershed name	Shasta River	
Hydrologic unit	105.00	
Stressor	Temperature, Low DO	
Stakeholder Participation	Medium	
Program Integration	NPS, NCWAP, SWAMP	
Interagency Coordination	CDF, DFG, DMG, USFS, EPA	
Activity dates	Start	End
TMDL Development	1-02	7-04
Implementation Planning	1-06	6-07
Basin Plan Amendment	1-06	6-07
Implementation Oversight and Tracking	9-03	Ongoing

Klamath River **		
Watershed name	Klamath River	
Hydrologic unit	105.00	
Stressor	Temperature	
Stakeholder Participation	Medium	
Program Integration	NPS, NCWAP, SWAMP	
Interagency Coordination	CDF, DFG, DMG, USFS, EPA, ODEQ	

Activity dates	Start	End
TMDL Development	7-01	7-03 to 7-06
Implementation Planning	7-05	6-07 to 6-08
Basin Plan Amendment	7-05	6-07 to 6-08
Implementation Oversight and Tracking	9-03	Ongoing

Klamath River **		
Watershed name	Klamath River	
Hydrologic unit	105.00	
Stressor	Nutrients	
Stakeholder Participation	Medium	
Program Integration	NPS, NCWAP, SWAMP	
Interagency Coordination	CDF, DFG, DMG, USFS, EPA, ODEQ	
Activity dates	Start	End
TMDL Development	7-01	7-03 to 7-06
Implementation Planning	7-05	6-07 to 6-08
Basin Plan Amendment	7-05	6-07 to 6-08
Implementation Oversight and Tracking	9-03	Ongoing

Klamath River		
Watershed name	Klamath River	
Hydrologic unit	105.00	
Stressor	Dissolved Oxygen (low)	
Stakeholder Participation	Medium	
Program Integration	NPS, NCWAP, SWAMP	
Interagency Coordination	CDF, DFG, DMG, USFS, EPA, ODEQ	
Activity dates	Start	End
TMDL Development	7-01	7-03 to 7-06
Implementation Planning	7-05	6-07 to 6-08

Basin Plan Amendment	7-05	6-07 to 6-08
Implementation Oversight and Tracking	9-03	Ongoing

Region 1 ***		
Watershed name	Region 1	
Hydrologic unit	100	
Stressor	Sediment	
Stakeholder Participation	Medium	
Program Integration	NPS, NCWAP, SWAMP	
Interagency Coordination	CDF, DFG, DMG, USFS, EPA, NMFS	
Activity dates	Start	End
TMDL Development	7-99	7-03
Implementation Planning	7-99	7-03
Basin Plan Amendment	7-99	7-03
Implementation Oversight and Tracking	9-02	Ongoing

* Eel River listings include North Fork Eel, Middle Fork Eel, Upper Mainstem Eel, Middle Mainstem Eel, Tomki Creek, and Eel River Delta.

** Klamath listings for temperature and nutrients include Lost River segments in California, Salmon River, and other areas tributary to the Klamath except the Scott, Shasta, and Trinity.

*** Development of Region-wide Implementation Plan for Sediment Reduction